AiM Racing Products 2014

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Made in Italy

AiM Racing Products 2014

AiM Racing Products

Welcome In Our World.

A place of numbers, data, information, engines, speed and a huge amount of passion. Your world.

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MXL2
The New Dash Logger
for Motorsport

The new MXL2 sports:

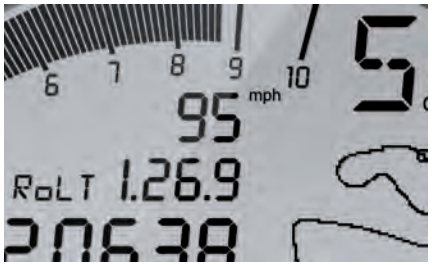
- An all new high contrast LCD with an integrated graphical portion
- A dual color backlight
- Six configurable RGB alarm LEDs
- A 10 RGB LED shift light array
- WiFi connectivity
- Three CAN connections
- Connections with industry leading 500+ ECUs
- A 3-axis accelerometer + gyroscope
- 8 analog inputs at a max 1000 Hz each
- 4 digital speed inputs
- Coil RPM input
- A lap signal input
- 2 digital outputs
- Realtime fully configurable math channels

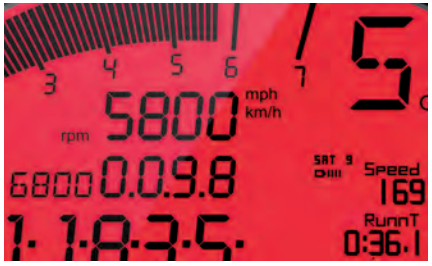
All this is housed in a waterproof aluminum chassis with sealed side mounted aluminum buttons for quick easy interaction.

Sharp Liquid Crystal

The MXL2 display features a high contrast traditional LCD, with a black to white ratio nearly double its predecessor, fused with a graphical LCD offering great flexibility in information display and alerts.

The MXL2 now offers a dual colored backlight of high contrast white and red which can also be changed conditionally. An ambient light sensor keeps the backlight at optimum brightness levels.





Flexible Alarms

Six configurable RGB alarm LEDs.
You choose the conditions, you choose the colors.
Select a solid alarm or flashing one - and the flashing frequency, choose to have an accompanying text message, and set the alarm priorities.

Integrated Shift Light Array

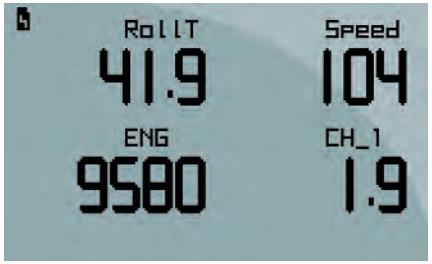
An integrated shift light is a hallmark of the MXL, but an even better 10 LED shift light array is found in the MXL2.
Choose from a host of advanced multicolored RGB shift light patterns that can be customized to your liking, and for each unique gear when required.

WiFi Connectivity

Configure, calibrate, and download your data wirelessly over a secure 802.11 WiFi connection.

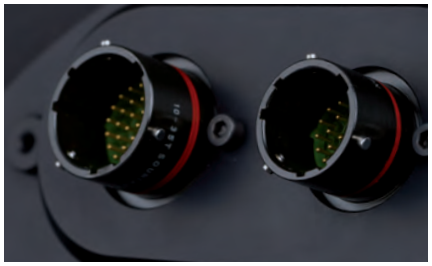
Freely configurable pages

Examples of pages with two, three or four information.

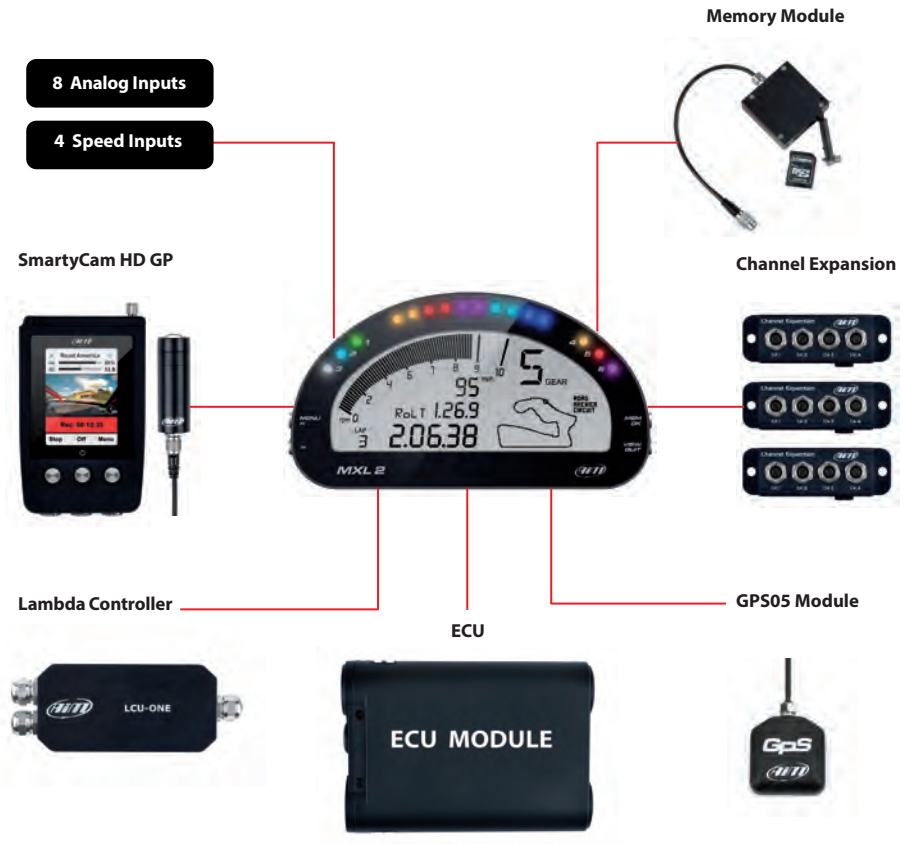


Motorsport Connectors

Lightweight aluminum mil-spec motorsport connectors now standard on the MXL2.



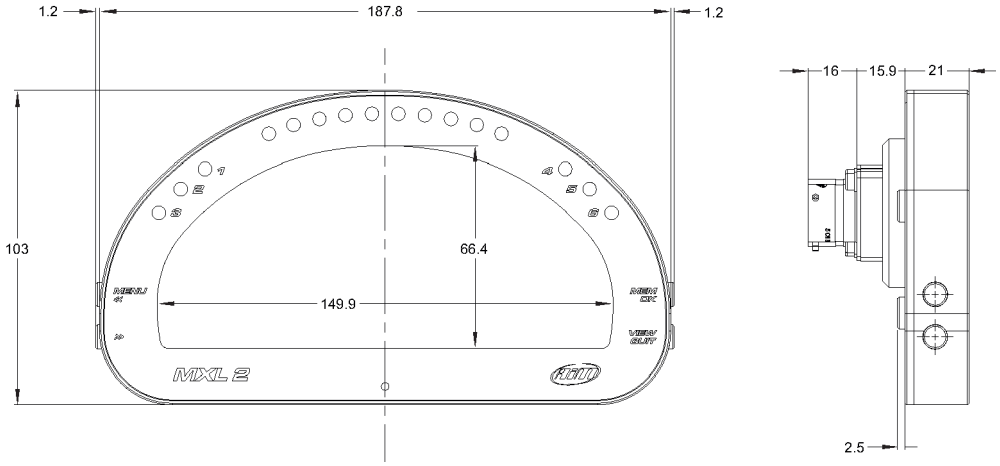
MXL2
A Modular Data Acquisition Display System for your Car



Modular Data Acquisition System

Add expansion modules via our built in CAN bus eg. GPS, external memory modules, channel expansions, lambda controllers.

These are only some of the items that can be added to our MXL range for incrementing the performance and the data acquired.



- Display	Graphical
- CAN connections	3
- ECU connections	CAN, RS232 or OBDII
- External modules connection	Yes
- Expansion CAN connection	GPS, Channel expansion, Lambda Controller, SmartyCam
- Analog inputs	8
- Digital inputs	4 Speed inputs, 1 RPM input
- Connectors	2 Autosport connectors
- Accelerometer + gyroscope	Internal Three-axial ± 5G
- Internal memory	4 GB
- Alarm LEDs	6 RGB freely configurable
- Shift Lights	10 RGB LEDs freely configurable
- Backlight	Bicolor white or red
- Light sensor	Yes
- Body	Anodize Aluminum
- Pushbuttons	Metallic
- Dimensions	187,8x103x21mm
- Weight	530g
- Waterproof	IP65

MXG
The New Extra Wide Dash Logger
for Motorsports

- Extra wide 7″TFT
  High Contrast 1100 lumen TFT Display
- Fully user configurable
- Eight configurable RGB alarm LEDs
- A 10 RGB LED shift light array
- WiFi connectivity
- Three CAN connections
- Connections with industry leading
  500+ ECUs
- A 3-axis accelerometer + gyroscope
- 8 analog inputs at a max 1000 Hz each
- 4 digital speed inputs
- Coil RPM input
- A lap signal input
- 2 digital outputs
- Realtime fully configurable math channels

All this is housed in a waterproof aluminum chassis with sealed side mounted aluminum buttons for quick easy interaction.

Extra Wide, High Contrast 7″TFT Display

The MXG display features a high contrast 7″ TFT Display, fully configurable by a dedicated software.

You can create as many pages as wished, showing in different fonts and dimensions every information received by MXG, as well as math channels.

Swapping between pages can be managed pushing one or two pushbuttons.

An ambient light sensor keeps the backlight at optimum brightness levels.

Flexible Alarms

Eight configurable RGB alarm LEDs.
You choose the conditions, you choose the colors.
Select a solid alarm or flashing one – and the flashing frequency, choose to have an accompanying text message, and set the alarm priorities.

Integrated Shift Light Array

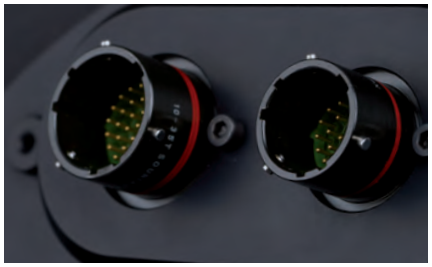
Choose from a host of advanced multicoloured RGB shift light patterns that can be customized to your liking, and for each unique gear when required.

WiFi Connectivity

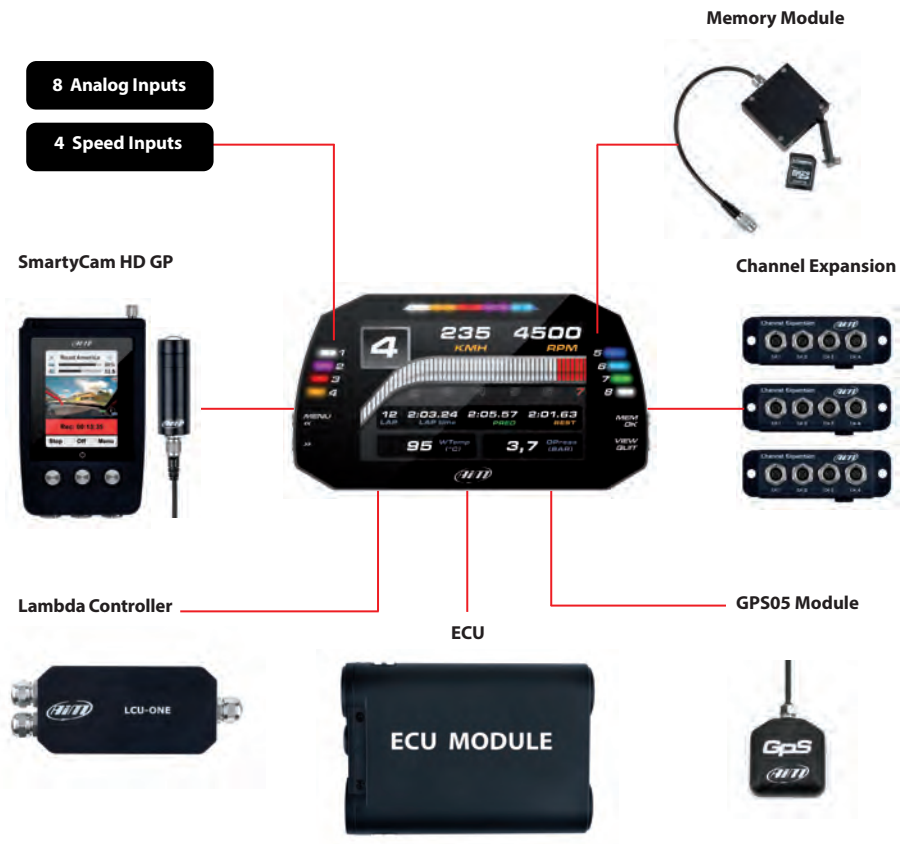
Configure, calibrate, and download your data wirelessly over a secure 802.11 WiFi connection.

Motorsport Connectors

Lightweight aluminum mil-spec motorsport connectors standard on the MXG.



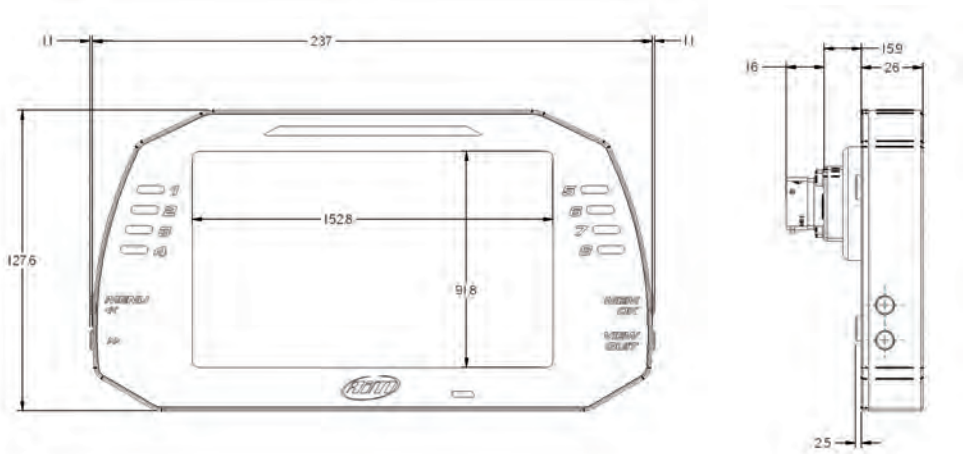
MXG
A Modular Data Acquisition Display System for your car



Modular Data Acquisition System

Add expansion modules via our built in CAN bus eg. GPS, external memory modules, channel expansions, lambda controllers.

These are only some of the items that can be added to our MXG range for incrementing the performance and the data acquired.



- Display	7" TFT display
- N. Pixel	800x840
- Contrast	1000:1
- Brightness	700cd/m2
- Light sensor	Yes
- Alarm LEDs	8 RGB freely configurable
- Shift Lights	10 RGB LEDs freely configurable
- CAN connections	3
- ECU connections	CAN, RS232 or OBDII
- External modules connection	Yes
- Expansion CAN connection	GPS, Channel expansion, Lambda Controller, SmartyCam
- Analog inputs	8 fully configurable
- Digital inputs	4 Speed inputs, 1 RPM input
- Connectors	2 Motorsport connectors
- Accelerometer + gyroscope	Internal Three-axial ± 5G+Gyro
- Internal memory	4 GB
- Body	Anodize Aluminum
- Pushbuttons	Metallic
- Dimensions	237x127,6x26mm
- Weight	950g
- Waterproof	IP65

EVO5
The New Data Logger Evolution

AiM introduces the evolution of the datalogger that, all over the years, has become a standard de facto acquisition system in a huge amount of championships.

A compact aluminum body, with two multichannels Motorsports connectors and internal SD closed by a waterproof door. It is so small that you can install it everywhere. And the internal SD card guarantees an unlimited capability to record all your possible data.
The door has a dedicated sensor that lets the system close all the files when you open it, in order to avoid any possible loss of your data.

ECU connection to over 500 different ECUs

The ECU connection features all the possible hardware compatibilities (CAN, RS232, OBDII) in order to guarantee the possibility to receive a huge amount of data from all the possible available ECUs, both in motorsport and in stock installations.

Of course, the unit is completely configurable, in order to offer the maximum flexibility.

An extra CAN connection

Many times you wish to get data not only from your ECU but also from other electronic devices you have in your car. The Extra Can is intended to offer this possibility.

2 motorsport connectors

Such a High-level datalogger could not offer cheap, low cost low quality connections.
We have chosen the best motorsport connectors in the market, easy to remove, easy to connect, waterproof and extremely reliable in every condition.

Internal thriaxial accelerometer and gyro sensor

A built in inertial platform lets you have the most powerful system for understanding oversteering, understeering, banking, etc.

Internal SD for data recording

No way to have a faster data downloading: you remove the SD and… it is done!
Of course, also USB connection is available, just in case the logger is hidden somewhere.

Expansions

EVO5 is of course freely expandable: you can add GPS05 Module, analog input channel expansions, Lambda controllers and our new powerful SmartyCam HD and HD GP.

Inputs/outputs

8 freely configurable analog inputs (0-5 V, 0-500 mv, thermocouples, thermoresistences) at frequencies from 0.1 to 5000 Hz), 2 speed signal inputs, 1 rpm input and 2 digital outputs let you have all the data you really need for fully understanding the behaviour of your car in every possible condition.

EVO4
The Data Logger

Complete, professional easy to use

EVO4 is a professional, modular datalogger with integrated GPS. Robust and compact, EVO4 can be easily placed in any vehicle. Its configuration with Race Studio 2 software is simple and immediate.

Read your sensor in 5 differrent ways

EVO4 samples all information you need: data coming from the Engine Control Unit (ECU) via CAN, serial line or OBDII, from the internal three-axial accelerometer, from the integrated GPS, which permits an automatic and precise lap time calculation.
Sensors can be connected to 5 configurable analog channels, to the RPM input and to 2 wheel speed inputs.

Expand your System according to your needs

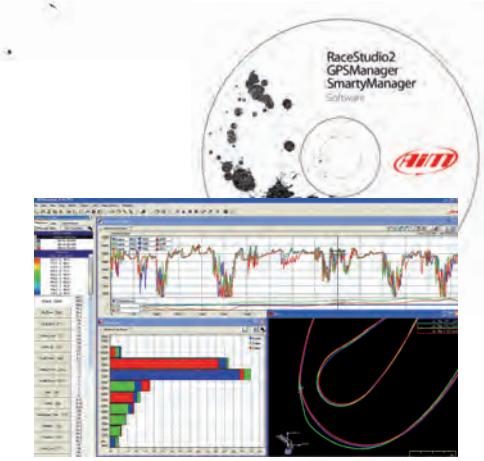
EVO4 is a modular logger, offering the opportunity to increase the number of channels, adding via CAN the following items:

Channel Expansion
It permits to add 4 0-5Volt analog channels.

TC Hub
It adds 4 K thermocouples.

LCU-One Lambda Controller Wide band Lambda controller LCU-One, with Bosch LSU 4.9 probe, providing all Air/Fuel data, lambda value and exhaust gas temperature, allows to perfectly tune the carburetion.

SmartyCam HD
The on-board camera that overlays on videos the data sampled by your logger.



Download data on your PC

Data recorded by EVO4 can be downloaded to PC and analyzed with the professional Race Studio Analysis software: graphs, histograms and tables will help you evaluate your performance, providing an objective support to avoid mistakes and improve your driving technique.

- Body	Anodized Aluminum
- Power supply	9 -15V
- Integrated GPS	Yes
- Integrated GPS triaxial Accelerometer	Yes
- ECU connection	CAN/ RS232/ K Line
- CAN Protocol for external expansion	Yes
- RPM Channel	1
- Analog Channels	5
- Speed Channels	2
- USB Data Download	Yes
- Laptimer Input	Yes optical and magnetic
- Sampling frequency	5 KHz max
- Memory	16 Mb
- Dimensions	129x40x30mm
- Weight	240g
- Waterproof	IP67

G- Dash
The new Digital Display for EVO

All your data in a glance

A small, flexible, fully configurable graphical display, showing the data sampled by EVO4 with a precise and enjoyable visualization.
With G-Dash you keep constantly under control lap times and all values coming from the ECU, from the accelerometers and from the GPS built in EVO4, besides receiving information from the on-board camera SmartyCam HD.

The best compact digital display

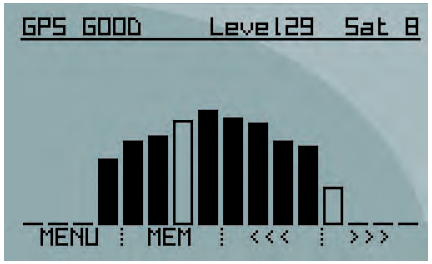
G-Dash is the new AiM graphical display, developed to be connected to our EVO DataLogger.
Totally in aluminum, with edge to edge glass and metallic pushbuttons is fully waterproof and extremely elegant and robust.

It is small, compact, extremely flexible thanks to its graphical display and to the possibility to configure as many pages you wish, each one of them can show from one to four data, in according to your requirements.

Configuration can be managed by PC or directly on the system: you can add, remove or modify pages or information per every page.

Six freely configurable RGB shift lights and four freely configurable RGB alarm LEDs give clear information about the status of your car.

G-Dash receives and shows information also about expansnion modules, like to say GPS receiver or our new SmartyCam HD.

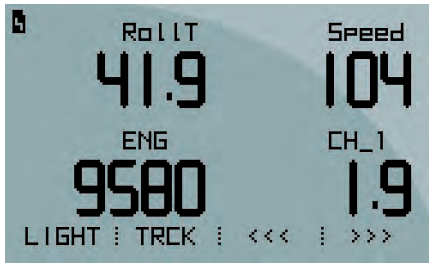


Up to 9 pages showing the data you wish as you wish

G-Dash swaps among pages showing lap times and data in a 100% customizable way: just choose your data and create your pages displaying up to 4 fields each.

The "RPM and Lap Time" page layout is also available to display RPM Graph, Lap Time and two channels of your choice.

Lap times
You can visualize the rolling time, or static or predictive lap time (as an absolute value or as a difference vs. the Best Lap).

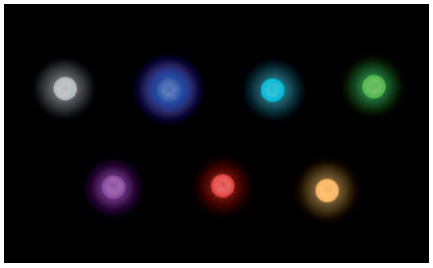


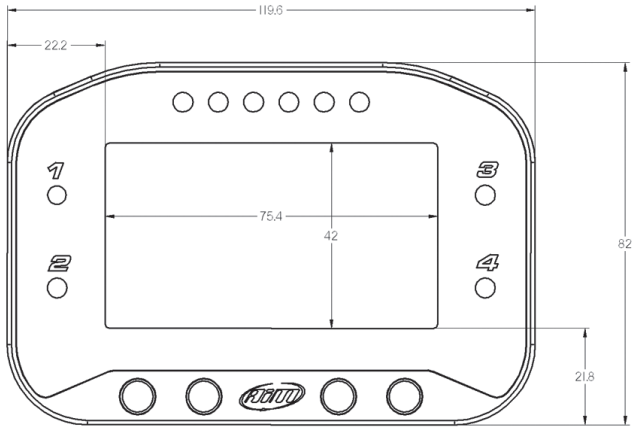
Configure your LEDs one by one

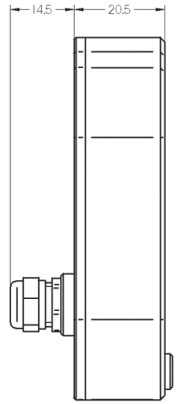
Six RGB shift lights can be configured for each gear, choosing LED color and RPM threshold values which will turn it on/off.

Alarms are managed in a very flexible way: you can choose the situation that generates the alarm, the LED behavior (blinking frequency and color) when the alarm appears and the conditions for its switch-off.

A warning message can also be shown.







- Display resolution	Graphical
- Alarm LEDs	4 RGB freely configurable
- Shift Lights	6 RGB freely configurable
- Display Pages	Up to 8 freely configurable
- Backlight	White
- Body	Anodize Aluminum
- Pushbuttons	Metallic
- Dimensions	119,6x82x20,5mm
- Weight	350g battery included
- Waterproof	IP67

MXL Dash
The Classic Display for EVO4

The new display to complement your EVO4 data acquisition system.

MXL Dash displays all pertinent parameters to the driver such as RPM, speed, gear number, alarms and lap times.

All data are presented in an easy to view layout on the wide backlighted screen.

MXL Dash features 6 fully configurable alarm LEDs and 10 gear flash LEDs.

Modern and stylishly designed, MXL Dash is perfectly suited for installation on any type of vehicle.

MXL Dash features a robust light aluminum body, backlighted display for perfect visibility in every light condition and is water resistant to IP65.

All your data in a glance

With MXL Dash you keep constantly under control lap times and all values coming from the ECU, from the accelerometers and from the GPS built in EVO4, besides receiving information from the on-board camera SmartyCam HD.

Formula Steering Wheel
For Formula and Sport cars

Formula Steering Wheel, for dimensions (270mm) and structure, has been specifically designed for Formula and Sport cars.

It offers the opportunity to visualize in real time all key parameters and shows a typical "racing" look.
Formula Steering Wheel is robust, for its anodized aluminum chassis, comfortable and ergonomic: maximum grip is guaranteed by its shape and its finishing with hand-sewn shammy leather.

Reliable: with its backlighted display and waterproof structure it can be used in all conditions of light and weather.

Its digital display shows data sampled by EVO4 logger, coming from Engine Control Unit and sensors.
With Formula Steering Wheel you keep constantly monitored:

- Lap/split times and lap number
- Speed or RPM graphical view
- 8 channels (2 per page) selected configuring EVO4 with Race Studio2 software.

Formula Steering Wheel also displays:

- 4 alarm leds, associated to the desired channels
- Configurable shift lights

It also features switch buttons to remote 4 functions among the options available in your car, like speed limiter, traction control, neutral, etc.

You can also visualize GPS signal strength and - if the circuit is not included in the tracklist - to fix finish-line and split points.

- Display	Graphical
- Alarms LEDs	4 RGB freely configurable
- Shift Lights	5 RGB freely configurable
- Display pages	Up to 8 freely configurable
- BackLight	White
- Display Pushbuttons	4
- User Pushbuttons	4
- Chassis	Anodize Aluminum
- Finishing	Hand-sewn shammy leather
- Paddleshift SX-DX	Optional
- Dimensions	270x184x53 mm
- Weight	1.400g
- Waterproof	IP65

GT320 - 350 Steering Wheel
For Sport Cars

- Diameter 320 or 350 mm
- SPA or OMP hub compatible
- Different leather available
- Optional Paddleshifts
- 4 pushbuttons for external commands
- Connectable to AiM EVO or ECU Bridge

Available in different models

GT Steering Wheel is available in 320mm or 350mm diameter, and can be outfitted with paddle shifts (optional).

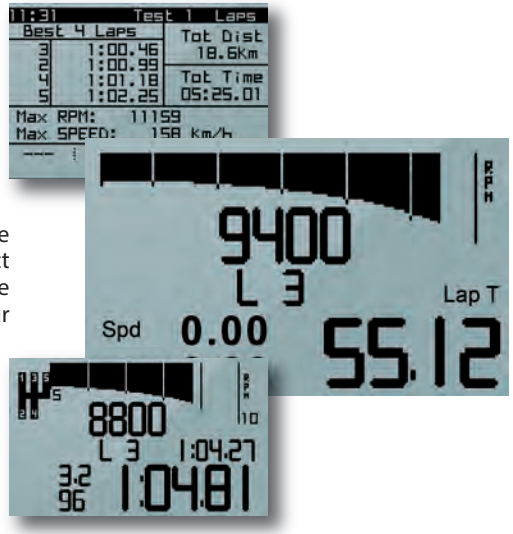
It is supplied with a specific flange to allow perfect installation on both SPA and OMP hubs.

GT 320

GT 350

Up to nine, fully configurable pages

Lap times and data are shown in successive pages in a user-defined way: simply select the data you want to monitor and create custom pages that can show up to four fields each.



Fully configurable LEDs

Melding form and functions, an integrated shift light array crowns the wheel behind a carbon fiber foreground.
Ten shift lights can be configured choosing the LED colour and the RPM threshold value that will switch them on/off.
Alarm management is very flexible too: you can choose which situation will activate the alarm and each LED behaviour, as well as the conditions for its switch-off.

- Display	Graphical
- Alarms LEDs	4 RGB freely configurable
- Shift Lights	10 RGB freely configurable
- Display pages	Up to 8 freely configurable
- BackLight	White
- Display Pushbuttons	4
- User Pushbuttons	4
- Chassis	Carbon Fiber
- Finishing	Carbon Fiber/Leather
- Paddleshift SX-DX	Optional
- Diameter	320-350 mm
- Weight	320/1,700g - 350/1,800g
- Waterproof	IP65

GPS05
GPS Module

A real breakthrough in data analysis

GPS technology represents a true revolution in data acquisition.
Thanks to GPS05 Module and its GPS Manager software, you can immediately get laptimes and all data needed for engine tuning as well as for improving driving technique.

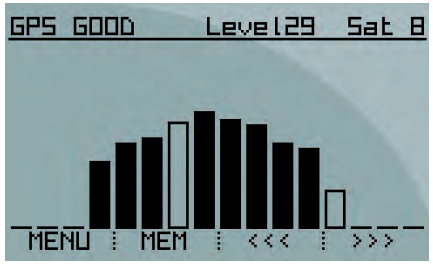
GPS05 Module is fast in satellite signal acquisition and reliable in adverse situations: it includes in a single unit both receiver and antenna, for immediate installation.
Lightweight and waterproof,
GPS05 Module is connectable to AiM loggers via CAN cable.

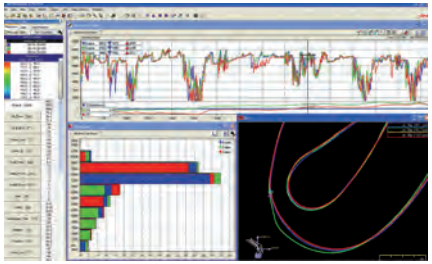
GPS Manager allows to set track start/finish lines and splits and to download a comprehensive track database.
GPS05 Module connected to AiM loggers delivers many important information, i.e. chassis analysis, track position, etc.
Thanks to GPS05 Module you'll get: Position, Speed, Cornering in-line and lateral G, automatic lap times.

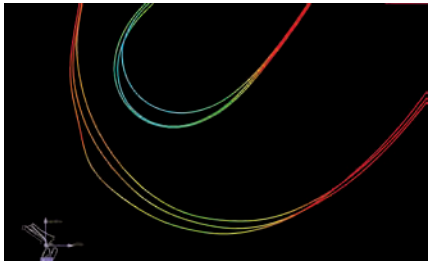
GPS05 Module and AiM logger, perfect sinergy

GPS05 module connected to an AiM logger allows you to monitor your position and speed at any point of the track.

Now it is possible to start running and immediately get laptimes without any previous operation, leaving old systems out: neither infrared or magnetic beacons nor track inspections before tests.







You can review your driving performance through real images, exporting all these data into Google Earth ®.

LCU-One
Lambda Controller

Full control of your engine

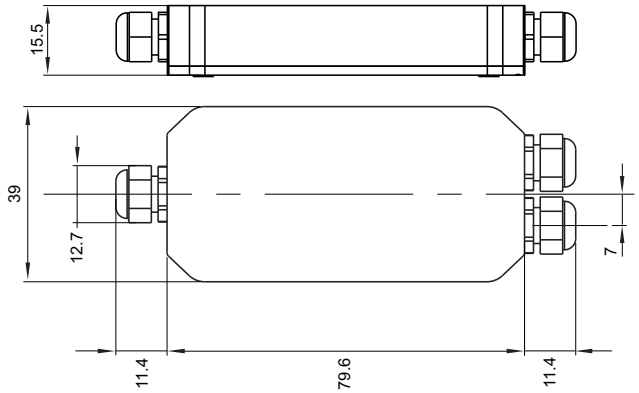
LCU-One Lambda controller range of products allow you to perfectly tune the carburetion of your engine as well as keep it at its best, appreciably improving your car performances.

All LCU-One lambda controllers use a wide band Bosch LSU 4.9 probe either for its capacity of saving the original calibration for its all life and for its duration: Bosch LSU 4.9 probe, in fact, has been designed to last for more than 100.000 km on a stock car.

LCU-One's can detect punctual Lambda value from 0.65 to 1.6, offering you an extremely precise measurement, very useful for engine tuning.

Through the analysis of the remaining oxygen, LCU-One points out possible oxygen excess/lack in the carburetion, providing an essential information for 4 strokes engines: configurability of Stoichiometric ratio allows LCU-One to be used on petrol powered engines as well as on diesel or on alternative fuel (bio fuel, ethanol) powered ones.

Dimensions: 109,4x39x20,6mm
Weight: 120 g
Waterproof: IP65



Three variants for all your needs

LCU-One range is available in three different versions:

LCU-One CAN
Uses a CAN bus and is extremely easy to install.

LCU-One Analog
Uses a serial line for programming and an analog output proportional to lambda value.
To be even more user-friendly, these two versions of LCU-One switch on/off together with the logger.

LCU-One CAN + Analog
Is equipped with both CAN bus and analog output.

All the data you need at your fingertips

LCU-One CAN

CAN connection
The product configures Stoichiometric point and provides:

Lambda value and Air/Fuel ratio
Lambda probe temperature and diagnosis

LCU-One CAN + Analog

The product configures:

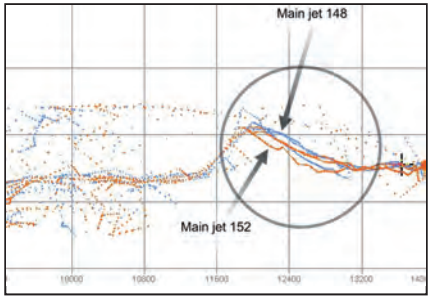
CAN connection+ Analog output
Stoichiometric point

LCU-One CAN + Analog also provides:
Lambda value and Air/Fuel ratio
Lambda probe temperature and diagnosis

LCU-One Analog

The product provides Lambda value and Air/Fuel ratio and - thanks to the dedicated Lambda Configurator software, LCU-One Analog allows to configure:

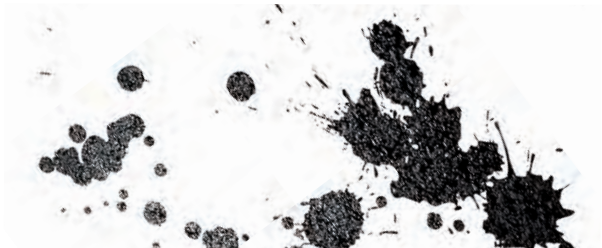
Stoichiometric point
Analog output (0-5 Volt)



Memory Module
Manages SD Cards up to 128 Gb

Forget the slow data downloading that to this new small addon:
Memory Module manages an SD memory in order to record all the data of your test in a file that can be easily and quickly moved to your PC for further analysis.
The available memory is much more you will ever need: up to 128 Gb.
Memory Module can be connected through CAN bus to all AiM Loggers like EVO4,EVO5, MXL or MXG.

Dimensions: 55,5x78,3x18mm
Weight: 100 g
Waterproof: IP65



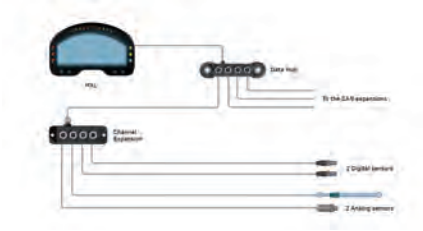
Channel Expansion
CAN Device

Enhance
your logger performance

This compact CAN device provides virtually endless data acquisition system expansion options.
Channel Expansion hub adds up to four freely configurable analog (or two digital and two analog) channels without occupying or modifying any of the existing system channels.

By using advanced CAN technology, wiring is simplified from four cables into just a single connection, thereby reducing possible and unnecessary points of failure. It is also possible - via Data Hub - to connect to the Master as many Channel Expansion as needed.

Its aluminium chassis makes it resistant and waterproof.



Dimensions: 105x33x28,4mm
Weight: 170 g
Waterproof: IP65

TC Hub
Thermocouples Multiplier

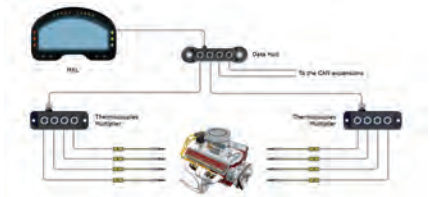
Keep all temperatures of your engine under control

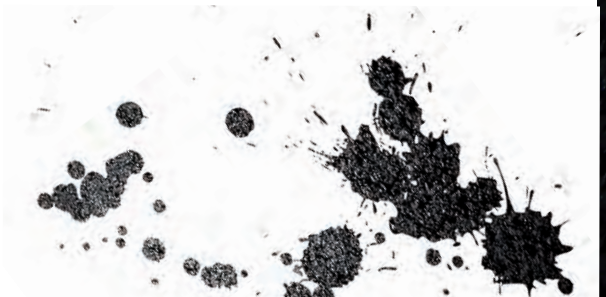
TC Hub allows you to connect via CAN bus four additional thermocouples to AiM loggers: you can of course use more TC Hubs to have all desired temperature sensors at your disposal.

With TC Hub you can keep regularly under control exhaust gas temperature of each cylinder in addition to water, oil and head temperatures.

Moreover, thanks to TC Hub, wires overall is reduced to the minimum.
Its aluminum chassis makes it resistant and waterproof.

Dimensions: 105x33x28,4mm
Weight: 170 g
Waterproof: IP65





Solo/SoloDL
The GPS Lap Timer for Motorsports

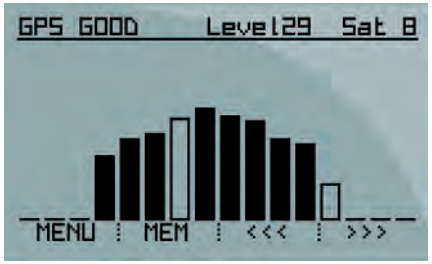
- Automatic Lap time calculation based upon GPS technology
- Wide internal Track Database with more than 200 tracks
- Automatic track recognition at power on
- Freely configurable display

- Freely selectable race Mode: Speed, Performance, Point to Point and Autocross
- Internal 32 megabytes datalogger

- SoloDL: connectable to every ECU for getting and recording all ECU data

Find your track thanks GPS

Thanks to its integrated track database Solo automatically recognizes which track you are racing and determines the starting line position in order to calculate your lap times.

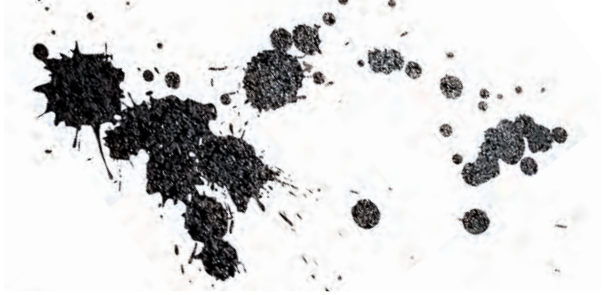


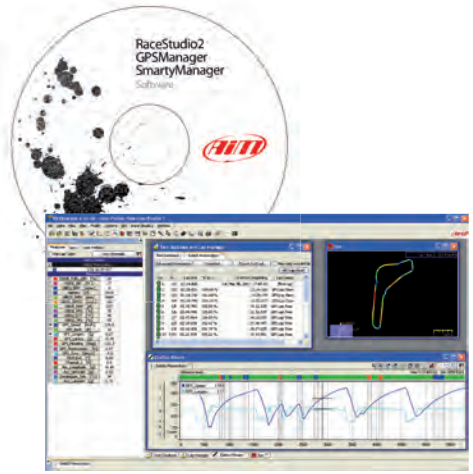
Select your race mode

With a simple keyboard configuration Solo can manage four different forms of motor-sports:

- Speed races in a closed circuit
- Point to-point races
- Regularity
- Performance tests

In all of these different situations Solo gives the proper information during the test and powerful data review immediately after each session.





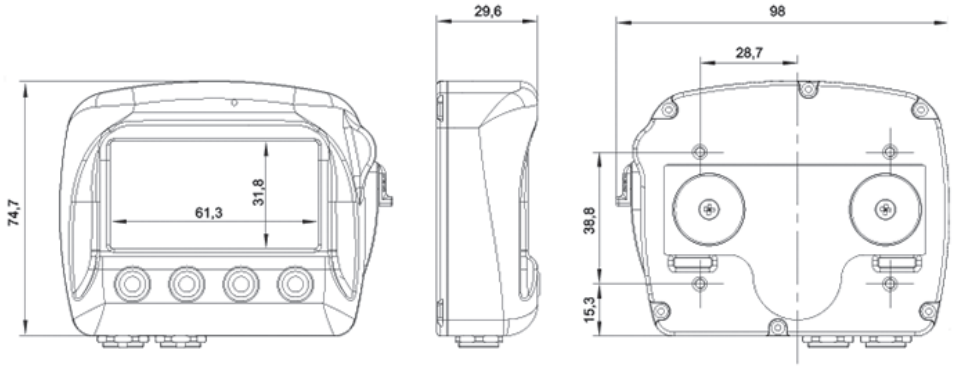
Data recall on screen or on your PC

At the end of your test, you can review all the key information on Solo or download them in order to study your performance on your PC.

SoloDL
The GPS Lap Timer with ECU connection

SoloDL offers all the functions of Solo, plus the ability to connect to your car's Engine Control Unit (ECU) and to the optional camera, SmartyCam HD: a powerful data acquisition system recording important data - like RPM, throttle position and much more - linked to your position on track.

All this without additional sensors because of the ECU connection.



- Display	Graphical
- Display resolution	128x64 pixels
- Display pages	Up to 8 freely configurable
- Backlight	White
- Integrated Track database	Yes
- Accelerometer	Tri-axial ± 6G
- Internal battery	Yes
- Battery type	Rechargeable lithium
- External power	12 V
- Memory	16 Mb
- GPS	10 Hz
- ECU connections (SoloDL)	CAN, K Line, RS232
- Dimensions	98x77,7x29,6 mm
- Weight	220g, battery included
- Waterproof	IP65

SmartyCam HD
The Videocamera Designed for Motorsports

SmartyCam HD has been designed for motorsports, by people exactly like you, who have spent their life on the track.
SmartyCam HD has been designed with a single purpose: providing great videos that include all the technical information that will help you improve your performance.
All this comes in the most robust and reliable system ever.

Competitive Advantages

Real time data overlayed on videos	Automatic Start&Stop	No Wave effect with Global Shutter CMOS Sensor	Proprietary lenses designed for motorsport
Front mount color TFT display	High Quality small-size video files	Extreme on track working conditions	Compact handy and easy to install

Real Time Data Overlayed on Videos

SmartyCam HD automatically overlays on videos all the data you need: speed, RPM, lap number, gear shifts and much more.

Simply choose the data and the graphic layout you prefer in the huge selection of overlays available.

Data can be read from all the possible sources: From GPS: track map and vehicle position, as well as speed, lap and split times. From AiM logger connected to your ECU: RPM, throttle, engaged gear, acceleration, temperatures, pressures. From any sensor connected to AiM logger.

No “Wave Effect “ with Global Shutter CMOS Sensor

Engine rumble causes vibrations, which are not a good thing for video recording.

Never again will you experience that seasick "wave effect" you get when watching videos recorded by a generic camera, when the car rolls at 7000 RPM.

SmartyCam HD has been designed for that environment and for those vibrations.

"Wave effect" is just a memory.

Designed to withstand extreme on-track Working Conditions

Frail things have a bad time on track.

An on-board camera designed for motorsports must guarantee great resistance against the extreme working conditions typical of track racing and against the most adverse weather, such as: strong and prolonged vibrations, storms, continuous rain, and extreme high and low temperatures.

That is why SmartyCam HD is made in machinery molded aluminum, just like many competition car parts.

Automatic Start & Stop

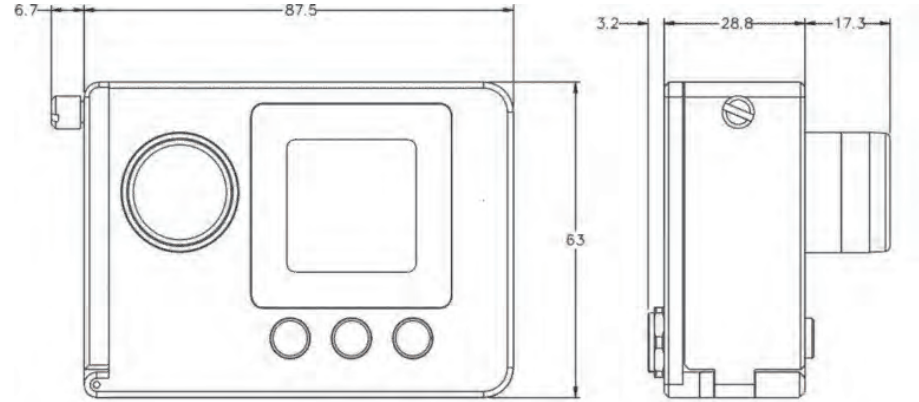
You are on the starting grid, ready to sprint, your adrenaline reaching the climax: the last thing you can worry about is... switching on the camera.

You have other things to worry about.
SmartyCam HD is aware of that.
That is why it switches on/off automatically and starts/stops recording the same way.

Hight quality with small size video files

HD cameras competition is focused on the highest pixel number. The result is that their video files are far too large, taking too much memory.
SmartyCam HD videos have the same quality as other HD cameras but their files are smaller because the H264 compression system parameters have been optimized to a perfect balance between video quality and file size. You can choose among three video file quality levels: one-hour recording takes 4GB (high quality), 2GB (normal) or 1,5GB (low).

Files are stored on SD cards: with current SD cards reaching 128GB capacity, you can record more than 30 hours of high-quality videos without changing the card.



- Video format	H.264 -720x1280 pixel @ 30fps 1,5-4Gb/hour
- Field of view	67°- 84°
- Lens	Telecentric with 6 elements
- Supported SD card	Up to 128 Gb
- Display	Frontal 128x128 pixel
- Accelerometer	Three-axial ± 5G
- Internal battery	Rechargeable Lithium battery 1.040 mAh
- Battery charge	700 mAh 12V
- Internal battery duration	70 - 80 min. of recording
- External power	9 -15 Volt
- Auto Power On/Off	Yes, if connected to an AiM logger
- Auto Power Off	Yes
- Auto Start/Stop Recording	Yes
- Usage temperature	-10°C / + 60°C
- Body	Anodize Aluminum

- Dimensions	87,5x63x46,1mm
- Weight	250g battery included
- Waterproof	IP67

SmartyCam HD GP
The Videocamera Bullet Version

The professional on-board camera with data overlay with remote bullet-cam.

If you have a formula car, or a bike, or in every situation in which SmartyCam is not so comfortable to install, here it is the version with remoted bullet-cam, SmartyCam HD GP.

Same video quality, same connections to Master Loggers, same features but a completely different look.

It is in black anodized aluminum, billet machined with a light, robust, and really small Bullet-Camera.

- Video format	H.264 -720x1280 pixel @ 30fps 1,5-4Gb/hour
- Field of view	67°- 84°
- Lens	Telecentric with 6 elements
- Supported SD card	Up to 128 Gb
- Display	2,4" 240x320 pixel
- Accelerometer	Three-axial ± 5G
- Internal battery	Rechargeable Lithium battery 1.040 mAh
- Battery charge	700 mAh 12V
- Internal battery duration	60 - 70 min. of recording
- External power	9 -15 Volt
- Auto Power On/Off	Yes, if connected to an AiM logger
- Auto Power Off	Yes
- Auto Start/Stop Recording	Yes
- Usage temperature	-10°C / + 60°C
- Body	Anodize Aluminum
- Dimensions	Main box 102.5x65.2x26,5mm
	Bullet camera diam 24mm x 73,5mm
- Bullet cable	2mt
- Weight	Main box 260g - Bullet camera 55g
- Waterproof	IP67

ECU Bridge / RPM Bridge
The easiest way to show engine data on visors and SmartyCam videos

Engine Data Bridges

ECU Bridge and RPM Bridge: these two systems are needed whenever engine data are to be visualized on a display or on a SmartyCam HD video, if no recording is required.

They are compatible with MXL Dash, G-Dash and Formula/GT Steering Wheels, and of course with the SmartyCam HD and SmartyCam HD GP.

ECU Bridge is to be used in case the Engine Control Unit transmits data in the following hardware protocols: OBDII, CAN or RS232.

AiM has developed hundreds of different protocols, to make compatibility with virtually all ECUs possible, either stock and after market ECUs.

Dimensions: 123x30x23mm
Weight: 150 g
Waterproof: IP65

ECU Bridge has to be properly configured with Race Studio 2 software to communicate with the different visors/cameras on one side and ECUs on the other side.

ECU Bridge is available in two variants:

With OBDII connector, for immediate plug&play connection to the OBDII port of cars with stock ECUs.

With CAN/RS232 connection, for direct installation on aftermarket ECUs.

RPM Bridge is to be used whenever the car has got no ECU (i.e. classic cars).
In this case RPM data can be obtained with connection to the coil or reading a square wave signal generated by the ignition system.

Dimensions: 123x30x23mm
Weight: 150 g
Waterproof: IP65

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